# **SAFETY DATA SHEET**

Date of issue/Date of revision 29 May 2024

Version2.02

Section	1. Identification
---------	-------------------

Product code	: 000001103897
Product name	: STEELGUARD 801 WHITE
CAS number	: Not applicable.
EC number	: Mixture.
Other means of identification 00346411; 00363918	
Product type	: Liquid.
Relevant identified uses of th	e substance or mixture and uses advised against
Product use	Coating. Professional applications, Used by spraying.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PPG Yung Chi Coatings Co. Ltd Lot 219, Amata Street, Long Binh IZ Bien Hoa City, Dong Nai Province Vietnam Tel : +84 61 3936121/22
Emergency telephone number (with hours of operation)	: CHEMTREC +(84)-444581938 (CCN 17704)

# Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 47.7%
Hazard pictograms	
Signal word	: Danger

# Section 2. Hazards identification

Hazard statements	:	Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.
Response	:	IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.
Storage	:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Routes of entry	:	Not available.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

# Section 3. Composition/information on ingredients

### Substance/mixture : Mixture

### CAS number/other identifiers

CAS number: Not applicable.EC number: Mixture.			
Ingredient name	CAS number	Chemical formula	%
<ul> <li>Polyphosphoric acids, ammonium salts toluene</li> <li>2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with ethenylbenzene and 2-ethylhexyl</li> <li>2-propenoate</li> </ul>	68333-79-9 108-88-3 68240-06-2	- C7-H8 (C11-H20-O2. C8-H14-O2.C8-H8) x	≥25 - ≤49 ≥10 - ≤25 ≥10 - <20
melamine Paraffin waxes and Hydrocarbon waxes, chloro butanone	108-78-1 63449-39-8 78-93-3	C3-H6-N6 - C4-H8-O	<10 ≤10 ≤3

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SUB codes represent substances without registered CAS Numbers.

Occupational exposure limits, if available, are listed in Section 8.

Version 2.02

# Section 4. First aid measures

Description of necessary fir	aid measures
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important symptoms/e	ects, acute and delaved
Potential acute health effe	
Eye contact	No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	al attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

Product name STEELGUARD 801 WHITE

# Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	<ul> <li>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</li> </ul>
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides carbonyl halides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Product name STEELGUARD 801 WHITE

# Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

**Control parameters Occupational exposure limits** 

# Section 8. Exposure controls/personal protection

Ingredient name			Exposure limits
koluene butanone			Ministry of Health (Viet Nam, 6/2019). STEL: 300 mg/m <sup>3</sup> 15 minutes. TWA: 100 mg/m <sup>3</sup> 8 hours. Ministry of Health (Viet Nam, 6/2019). STEL: 300 mg/m <sup>3</sup> 15 minutes. TWA: 150 mg/m <sup>3</sup> 8 hours.
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	Is to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls	:		
Individual protection measured	res		
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use	bughly after handling chemical products, before y and at the end of the working period. In the remove potentially contaminated clothing. Busing. Ensure that eyewash stations and tation location.
Eye/face protection	:	Chemical splash goggles.	
Skin protection			
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of ne of the gloves cannot be accurately
Gloves	:	For prolonged or repeated handling, u	ise the following type of gloves:
		Recommended: butyl rubber	
Body protection	:	being performed and the risks involve	
Other skin protection	:	Appropriate footwear and any addition	nal skin protection measures should be formed and the risks involved and should be

Product code 0000011038 Product name STEELGUA	
Section 8. Expos	ure controls/personal protection
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Section 9. Physic	cal and chemical properties
Appearance	
Physical state	: Liquid.
Color	: White.
Odor	: Aromatic.
Odor threshold	: Not available.
рН	Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 6°C (42.8°F)
Evaporation rate	: Not available.

: Greatest known range: Lower: 1.8% Upper: 11.5% (butanone)

Result

Not soluble

: No specific test data related to reactivity available for this product or its ingredients.

: Under normal conditions of storage and use, hazardous reactions will not occur.

: When exposed to high temperatures may produce hazardous decomposition

: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Flammability (solid, gas)

(flammable) limits Vapor pressure

Vapor density Relative density

Solubility(ies)

octanol/water

Viscosity Viscosity

**Reactivity** 

reactions

**Chemical stability** 

**Conditions to avoid** 

**Incompatible materials** 

**Possibility of hazardous** 

Partition coefficient: n-

Auto-ignition temperature Decomposition temperature

Lower and upper explosive

: Not available.

Not available.Not available.

: 1.34

÷

Section 10. Stability and reactivity

Media

cold water

: Not applicable.

: Not available.

: Not available.

: > 100 s (ISO 6mm)

: The product is stable.

products.

: Kinematic (40°C): >21 mm<sup>2</sup>/s

Product code 000001103897 Product name STEELGUARD 801 WHITE

# Section 10. Stability and reactivity

Hazardous	decomposition
products	

: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. carbonyl halides metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Polyphosphoric acids,	LD50 Oral	Rat	4.74 g/kg	-
ammonium salts				
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
melamine	LC50 Inhalation Dusts and mists		>5190 mg/m <sup>3</sup>	4 hours
Devettin	LD50 Oral	Rat	3161 mg/kg	-
Paraffin waxes and	LD50 Oral	Rat	26100 mg/kg	-
Hydrocarbon waxes, chloro butanone	LD50 Dermal	Rabbit	6480 ma/ka	
	LD50 Dermai LD50 Oral	Rat	6480 mg/kg 2737 mg/kg	-
			0 0	-
Conclusion/Summary	: There are no data available on	the mixture itse	lf.	
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on	the mixture itse	lf.	
Eyes	: There are no data available on	the mixture itse	lf.	
Respiratory	: There are no data available on	the mixture itse	lf.	
Sensitization				
Skin	: There are no data available on	the mixture itse	lf.	
Respiratory	: There are no data available on	the mixture itse	lf.	
Mutagenicity				
<b>Conclusion/Summary</b>	: There are no data available on	the mixture itse	lf.	
Carcinogenicity				
Conclusion/Summary	: There are no data available on	the mixture itse	lf.	
Reproductive toxicity				
Conclusion/Summary	: There are no data available on	the mixture itse	lf.	
Teratogenicity				
Conclusion/Summary	• There are no data available on	the mixture itee	lf	

**Conclusion/Summary** : There are no data available on the mixture itself. **Specific target organ toxicity (single exposure)** 

Name	Category	Route of exposure	Target organs
toluene 2-Propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with ethenylbenzene and 2-ethylhexyl 2-propenoate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
butanone	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
toluene	Category 2	-	-
melamine	Category 2		urinary system

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	Causes skin irritation. Defatting to the skin.
Ingestion	:	Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	fects and also chronic effects from short and long term exposure
Short term exposure Potential immediate effects	: There are no data available on the mixture itself.

**Potential delayed effects** : There are no data available on the mixture itself.

# Section 11. Toxicological information

Long term exposure		
Potential immediate effects	: There are no data available on the mixture itself.	
Potential delayed effects	: There are no data available on the mixture itself.	
Potential chronic health eff	<u>xts</u>	
General	: May cause damage to organs through prolonged or repeated exposure. Prolongec or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.	Í
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagenicity	: No known significant effects or critical hazards.	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	

# Numerical measures of toxicity

## Acute toxicity estimates

Route	ATE value
Øral	9742.23 mg/kg

### Other information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Polyphosphoric acids, ammonium salts	Acute EC50 730.5 mg/l Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	48 hours
melamine	Acute EC50 200 mg/l	Daphnia	48 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
	2.73	8.32	Low
melamine Paraffin waxes and	-1.22 7.46 to 11.48	3.8 -	Low High
Hydrocarbon waxes, chloro butanone	0.3		Low
butanone	0.5	-	LOW

### Mobility in soil

Viet Nam	Page: 10/12
----------	-------------

Version 2.02

# Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### **Additional information**

UN : None identified.

IMDG : None identified.

- **IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.
- **Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

#### Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Circular no. 05/1999/TT-BYT

Ingredient name	Category	Notes
penzene	Category 1	
xylene	Category 2	
toluene	Category 2	
arsenic	Category 1	
thallium	Category 2	
Formaldehyde, solution	Category 2	

### Toxic classification (TCVN : 4

3164-79)

### International regulations

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Section 16. Other information

### **History**

Date of issue/Date of revision	: 29 May 2024
Date of previous issue	: 2/20/2024
Version Prepared by	: 2.02 : EHS
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: Not available.

✓ Indicates information that has changed from previously issued version.

### Notice to reader

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.